

Residential Electrical Inspector Cross-training Course Syllabus – Fall 2022

Class days – Mondays and Wednesdays, 7:30-9:30 a.m. Progress exam days – Online unless otherwise communicated 8:00-noon

Please note: This syllabus is a <u>guideline</u>. As the course proceeds, some lessons may take longer to complete which will bump all future lessons and/or progress exams forward and dates will no longer be accurate. Course could be extended an additional two-weeks. However, the lessons and associated homework will remain the same even if the dates change.

Week 1 (November 2)

First day of course, attendance via webcam & mic required, 8-12 p.m.

- Welcome, student roles and responsibilities, review of course details
- Ethics presentation
- Lesson 1: Basics

Week 2 (November 7 & 9)

- Lesson 2: Code
- Homework: review Art. 200, 210 and 230

Week 3 (November 14 & 16)

- Lesson 3: Layout and terminology
- Homework: study definitions

Week 4 (November 21)

- Lesson 4: Grounding and bonding basics
- Homework: read Art. 250.52 & 250.66

November 23: No class

Week 5 (November 28 & 30)

- Lesson 5: Bonding basics
- Review for exam

Week 6 (December 5 & 7)

- Lesson 5: (Continued)
- Lesson 6: Services

Week 7 (December 12 & 14)

Lesson 6: (Continued)

Week 8 (December 19 & 21)

Review lessons 1-6

December 19: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

- Progress exam #1: 52 questions based on lessons 1 thru 6
- Review progress exam #1

Winter Break: No class between 12/23/22 – 1/2/23

2023

Week 9 (January 4)

- Lesson 7:Feeders and sub-panels
- Homework: study

Art. 210.11 thru 210.70

- Lesson 8:Parallel conductors
- Homework: study Art, 215 & 240

Week 10 (January 9 & 11)

- Lesson 9:Temporay services
 Hemowork: study Light's
- Homework: study Ugly's
- Lesson 10: Ohms law
- Homework: study T-310.15B16

January 16: No class

Week 11 (January 18)

Lesson 11: Formulas

Lesson 12: Taps and table 210.24

Week 12 (January 23 & 25)

- Lesson 12: Taps and table 210.24
- Review lessons 7-12

Week 13 (January 30 & February 1)

January 30: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

- Progress exam #2: 52 questions based on lessons 7-12
- Review progress exam #2

Week 14 (February 6 & 8)

- Lesson 13: Required circuits
- Study 210.8 & 210.12
- Lesson 14: AFCI/GFCI requirements
- Study 210.52, 422 and 424

Week 15 (February 13 & 15)

- Lesson 15: Living area layout
- Study past lessons

February 20: No class

Week 16 (February 22)

- Lesson 16: Kitchen layout
- Study T-220.55

Week 17 (February 27 & March 1)

- Lesson 17:Overcurrent protection, Table 220.55 Study 314.16
- Lesson 18: Calc's and box fil

Week 18 (March 6 & 8)

Lesson 18: (Continued)

Week 19 (March 13 & 15)

March 13: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

- Progress exam #3: 52 questions based on lessons 13-18
- Review progress exam #3
- Lesson 19: Rough-in inspection

Week 20 (March 20 & 22)

- Lesson 19: (Continued)
- Lesson 20: Cooking equipment calc's
- Study lessons

Spring Break: No class between 3/27/23 – 3/31/23

Week 21 (April 3 & 5)

- Lesson 21: HVAC
- Study lessons

Week 22 (April 10 & 12)

- Lesson 22: Generators, transfer switches, and swimming pools
- Study lessons
- Exam Review

Week 23 (April 17 & 19)

Exam Review

April 17: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

- Progress exam #4: 52 questions based on lessons 19-22
- Review progress exam

Week 24 (April 24 & 26)

April 11: projected last day of course

- Lesson 23: Minor labels
- Lesson 24: Solar panels
- Lesson 25: Virtual Inspection
- Course review

Possible extension of course of up to two weeks – TBD by middle of March

Updated: 09/20/22